

Title (en)
EXHAUST-GAS PURIFYING CATALYST FOR LEAN-BURN ENGINE

Title (de)
ABGASREINIGUNGSKATALYSATOR FÜR MAGERMOTOR

Title (fr)
CATALYSEUR DE PURIFICATION DES GAZ D'ÉCHAPPEMENT POUR MOTEUR À GAZ PAUVRE

Publication
EP 3097977 B1 20211020 (EN)

Application
EP 15740039 A 20150119

Priority
• JP 2014009810 A 20140122
• JP 2015051276 W 20150119

Abstract (en)
[origin: EP3097977A1] It is an object to provide an exhaust gas purification catalyst for a lean burn engine having sufficient NOx purification performance. The exhaust gas purification catalyst for a lean burn engine according to the present invention has a catalyst component including noble metal and ceria supported on a three-dimensional structure. In the whole catalyst, the supported amount of ceria per 1 L of catalyst is 140 to 300 g/L, and in the whole catalyst, is 50 to 98% by mass with respect to the whole coated amount. Furthermore, it is characterized that 50% by mass or more of ceria is included in the same catalyst layer in which noble metal is included, and the amount of noble metal included in the catalyst layer is 0.1% by mass or more with respect to the amount of ceria included in the catalyst layer.

IPC 8 full level
B01J 23/63 (2006.01); **B01D 53/94** (2006.01); **F01N 3/10** (2006.01); **F01N 3/28** (2006.01)

CPC (source: EP US)
B01D 53/945 (2013.01 - EP US); **B01J 23/63** (2013.01 - EP US); **B01J 35/56** (2024.01 - US); **B01J 37/0225** (2013.01 - US); **B01J 37/0244** (2013.01 - EP US); **B01D 2251/208** (2013.01 - EP US); **B01D 2255/1021** (2013.01 - EP US); **B01D 2255/1023** (2013.01 - EP US); **B01D 2255/1025** (2013.01 - EP US); **B01D 2255/2022** (2013.01 - EP US); **B01D 2255/2027** (2013.01 - EP US); **B01D 2255/2042** (2013.01 - EP US); **B01D 2255/2047** (2013.01 - EP US); **B01D 2255/2063** (2013.01 - EP US); **B01D 2255/2065** (2013.01 - EP US); **B01D 2255/2092** (2013.01 - US); **B01D 2255/40** (2013.01 - US); **B01D 2255/9022** (2013.01 - EP US); **B01D 2258/012** (2013.01 - EP US); **B01J 35/40** (2024.01 - EP US); **B01J 35/615** (2024.01 - EP US); **B01J 37/0248** (2013.01 - EP US); **B01J 37/16** (2013.01 - EP US); **B01J 2523/00** (2013.01 - EP US); **F01N 3/28** (2013.01 - EP US); **Y02C 20/20** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Cited by
US2019217278A1; WO2018069199A1; WO2018178684A1

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